

Public Meeting for US Route 1 Mooresfield Road to the Government Center South Kingstown, Rhode Island

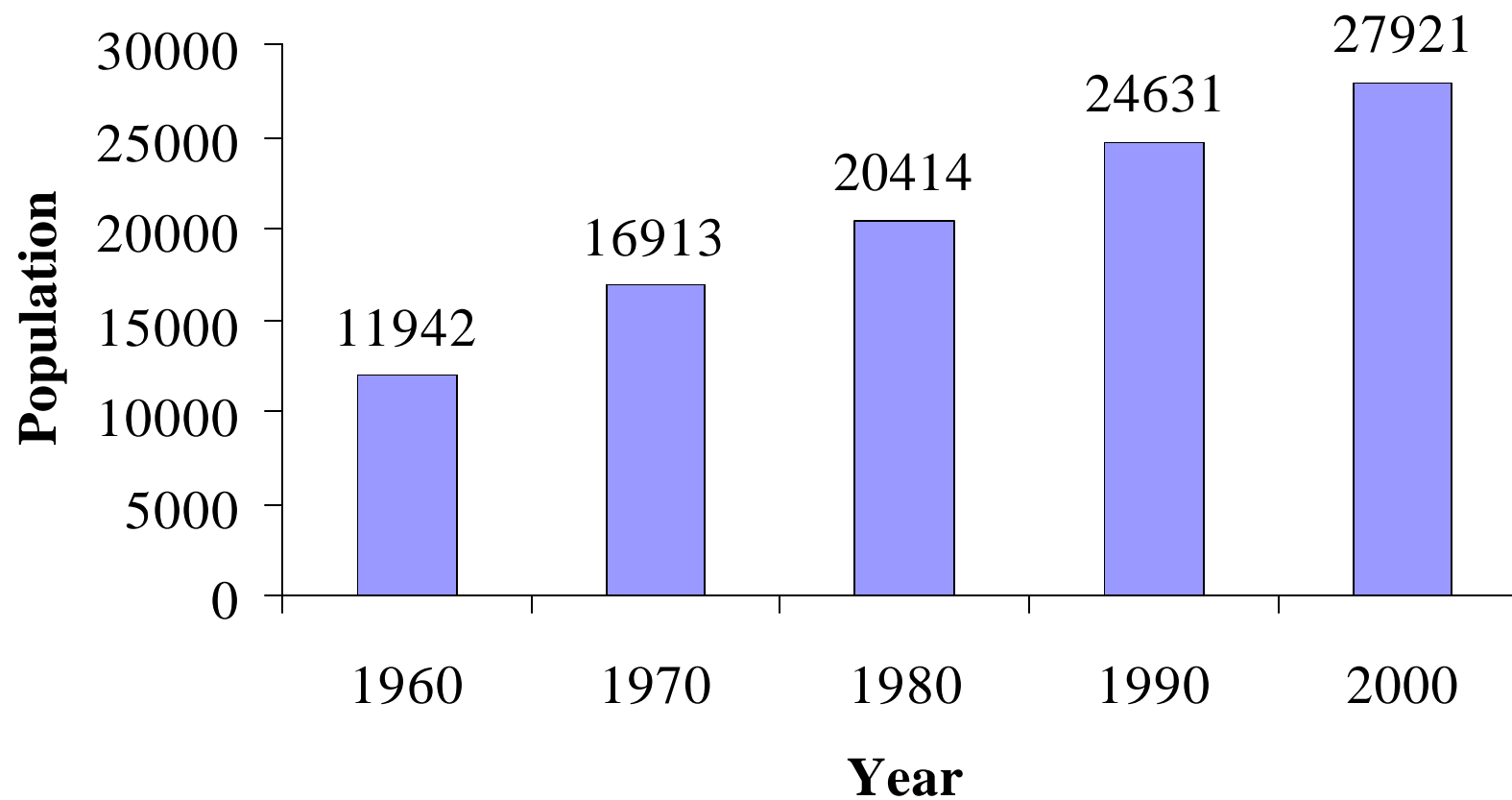


Rhode Island Department of Transportation

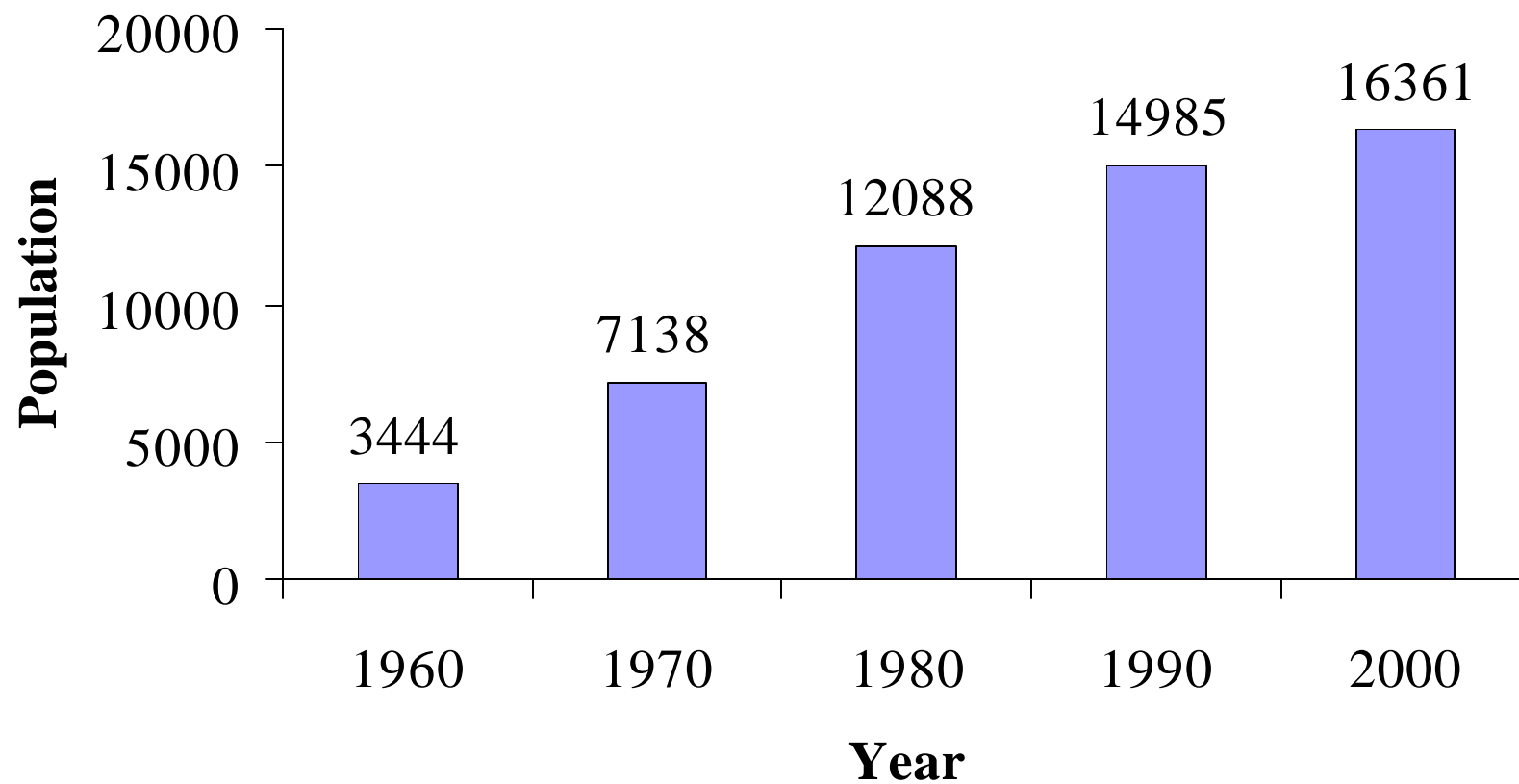
Project Limits



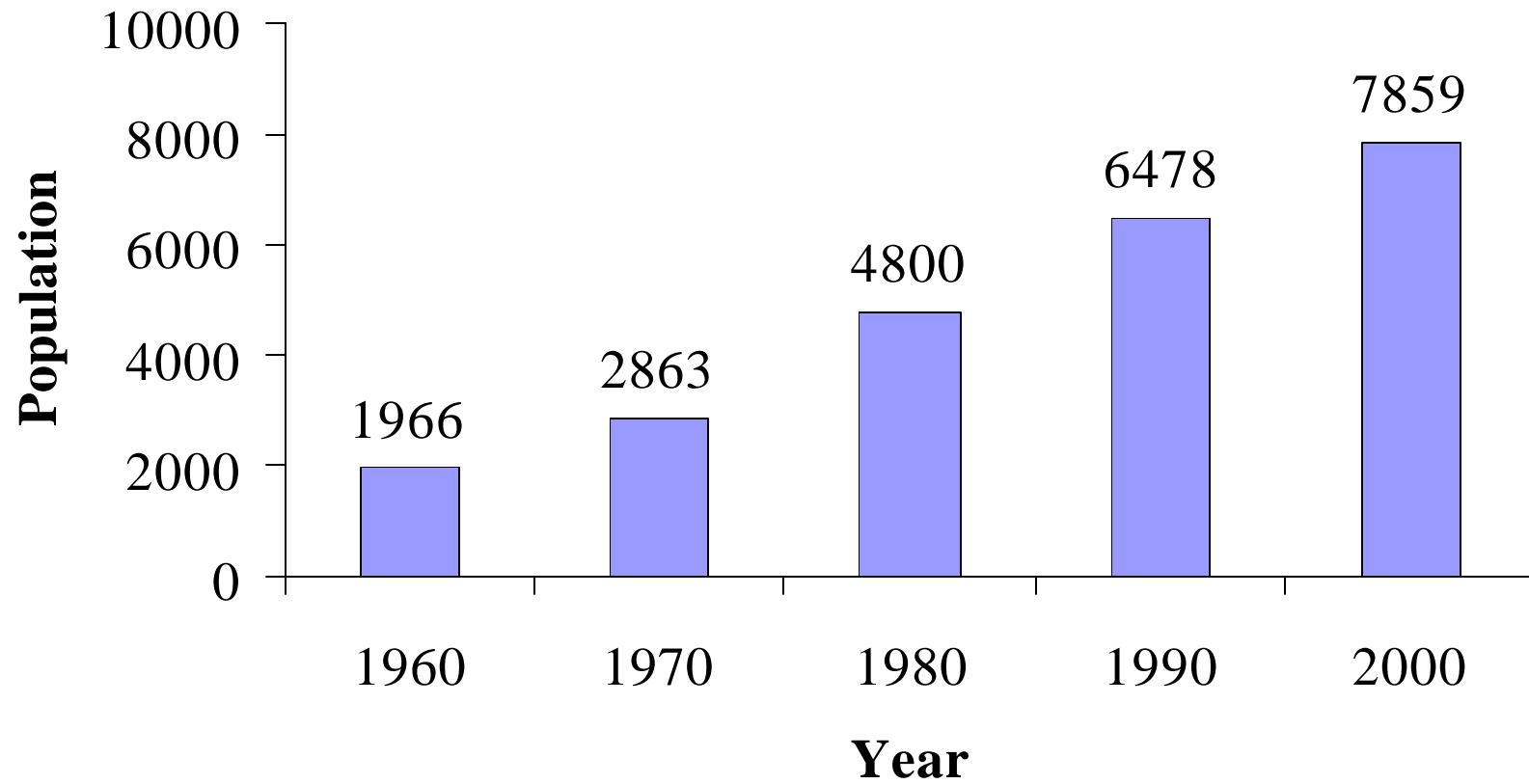
South Kingstown Population Growth



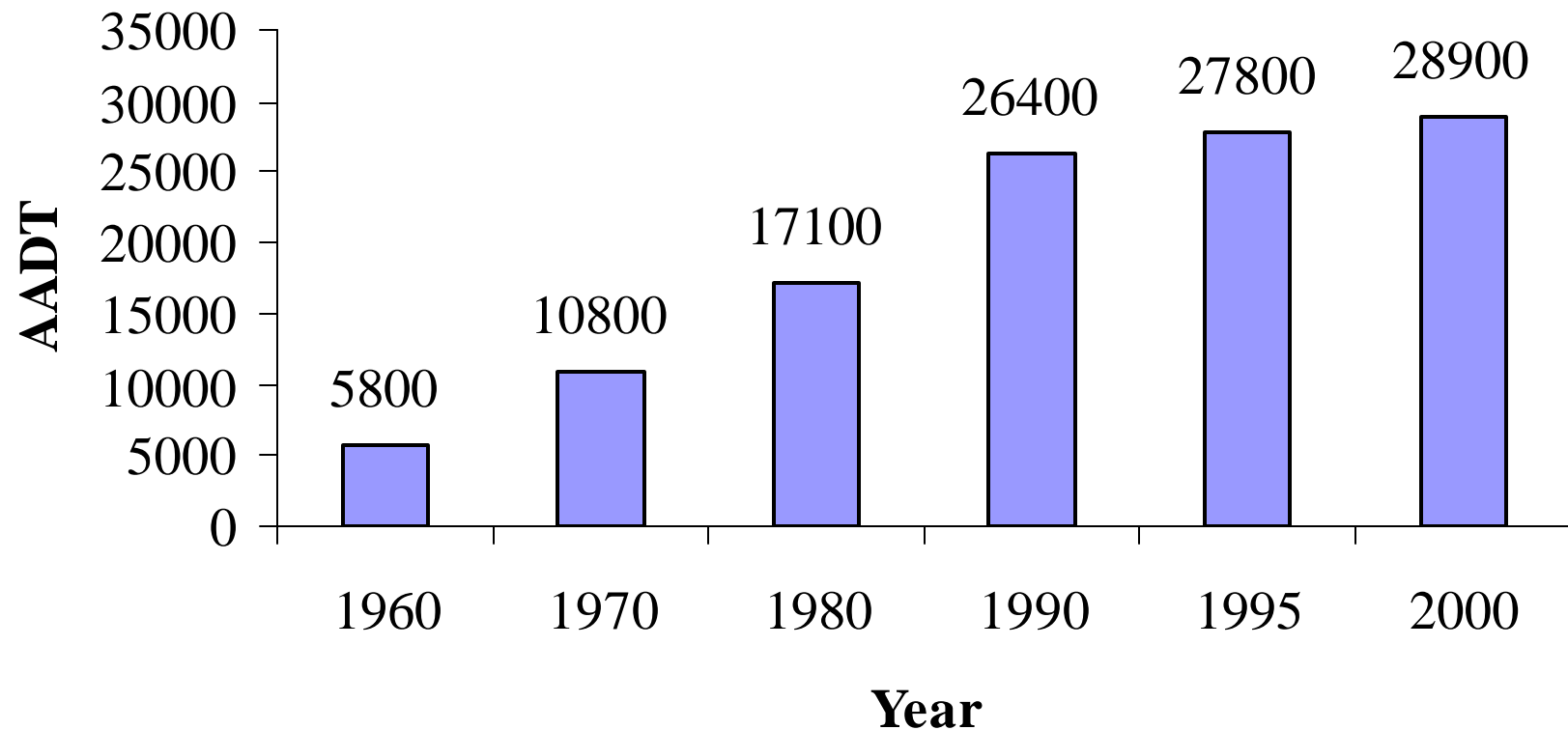
Narragansett Population Growth



Charlestown Population Growth



US Route 1 Average Annual Daily Traffic (1/2 Mile South of Saugatucket Road)



US Route 1/Mooresfield Road Intersection

Existing Conditions

- Significant Traffic Volume Increase Resulting in Insufficient Capacity
- High Number of Accidents
 - 2000: 29 Accidents
 - 2001: 30 Accidents
- Need for Updated Traffic Signal System
- Need for a Bus Turnaround

Existing Mooresfield Road Intersection



US Route 1 from Mooresfield Road to the Government Center

Existing Conditions

- 17 Median Openings Within Project Limits
- Northbound Jughandle at Torrey Road
- Full Jughandle at South County Commons
- Full Jughandle at the Government Center
- 15 Foot Median Without Crossover Protection

Existing Median Opening North of Indian Lake (Looking South)



Existing Median Opening North of Indian Lake (Looking South)



Existing Median Opening North of Indian Lake (Looking North)



Existing Median Opening North of Indian Lake (Looking North)



Existing Torrey Road Jughandle



Existing Fire Station Median Crossover



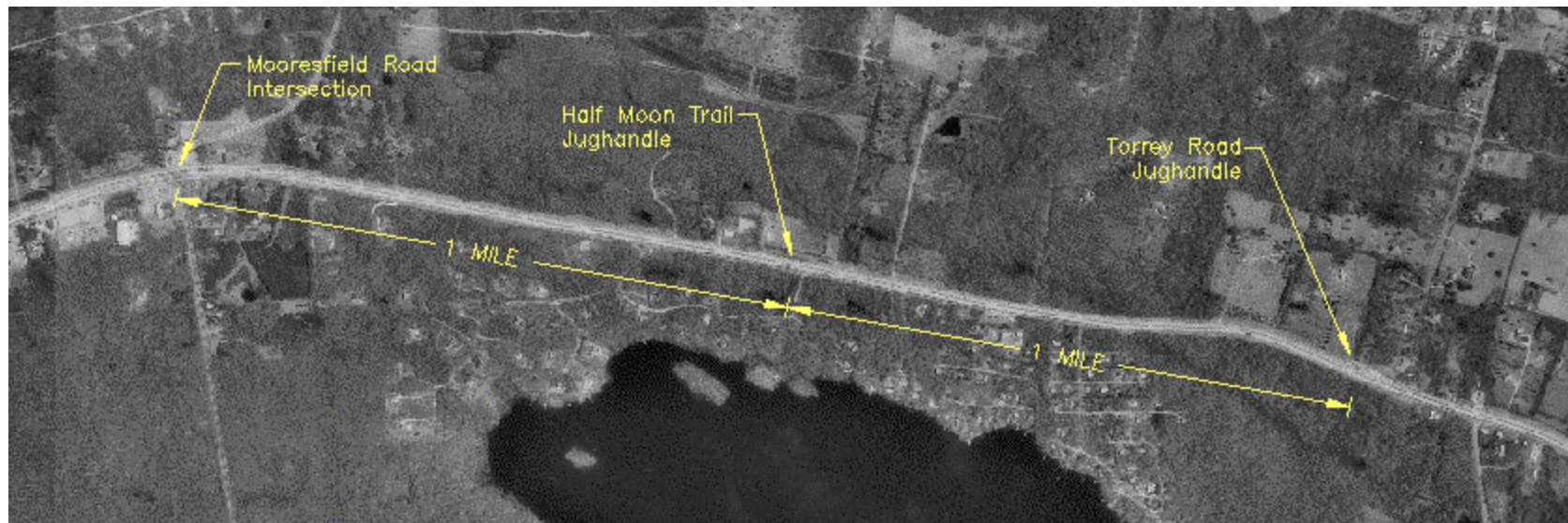
Existing South County Commons Jughandle



Existing Government Center Jughandle



Proposed Improvements

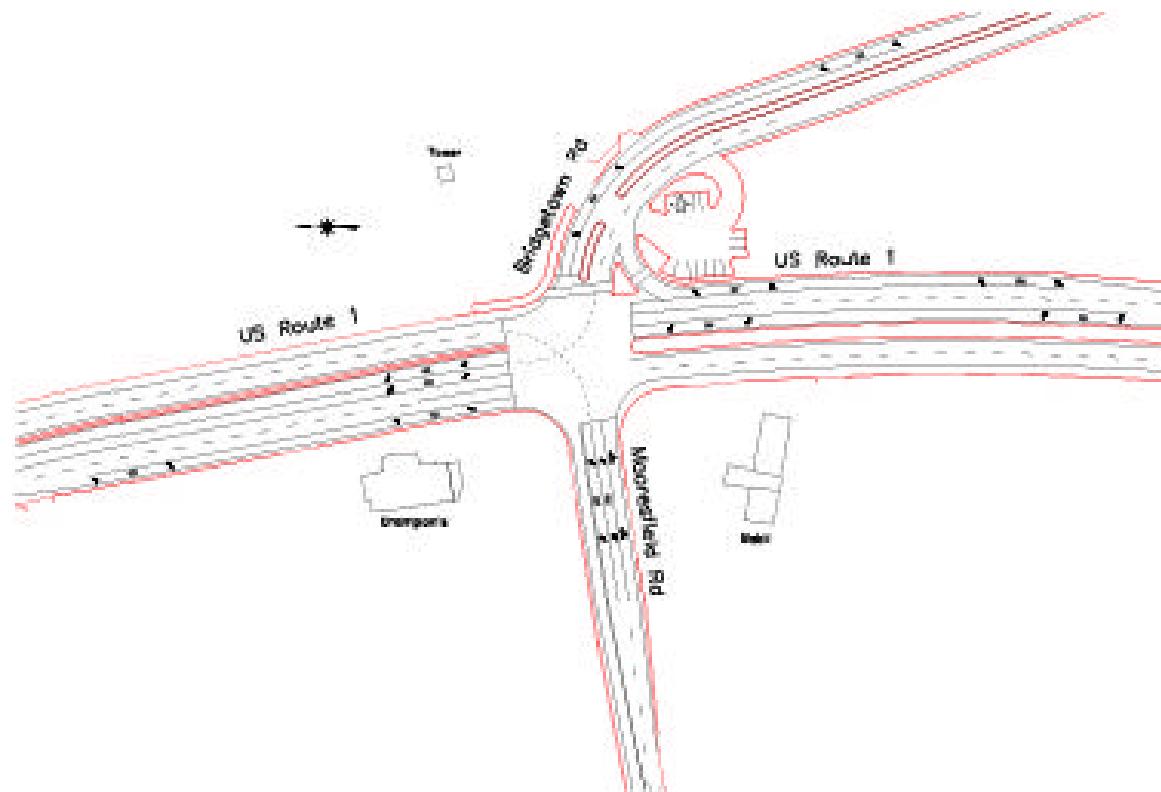


US Route 1/Mooresfield Road Intersection

Proposed Improvements

- Addition of a Second Left-Turn Lane for the Southbound US Route 1 Approach
- Addition of a Second Left-Turn Lane for the Eastbound Mooresfield Road Approach
- Provide Minor Drainage Improvements
- Installation of a New Traffic Signal
- Installation of a New Bus Turnaround in the Southeast Park-and-Ride Lot

Proposed Mooresfield Road Intersection



US Route 1 from Mooresfield Road to the Government Center

Proposed Improvements

- Addition of New Median Crossover Protection
- Closure of 15 Existing Median Openings (Fire Station Crossing to Remain Open)
- Addition of New Jughandle Located Just North of Half Moon Trail
- Addition of Southbound Turnaround at Existing Torrey Road Jughandle

Proposed Turnaround Spacing

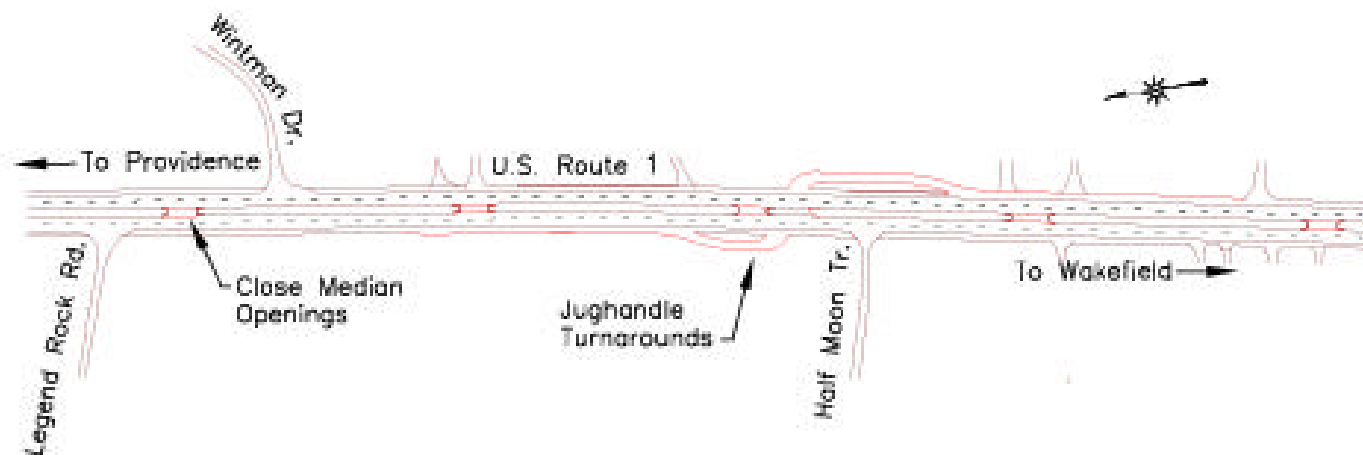
US Route 1 from Mooresfield Road to the Government Center

- Mooresfield to New Jughandle North of Half Moon Trail: 1 Mile
- New Jughandle North of Half Moon Trail to Torrey Road Jughandle: 1 Mile
- Torrey Road Jughandle to South County Commons Jughandle: 1 Mile
- South County Commons Jughandle to Government Center Jughandle: 1/2 Mile

Proposed Jughandle North of Indian Lake (Aerial View)




Proposed Jughandle North of Indian Lake



Proposed Torrey Road Jughandle



Median Crossover Protection Options

- Standard Steel Beam
- Rustic Steel Beam
- Steel Backed Timber
- Wire Rope Safety Fence 

Standard Steel Beam Guardrail



Rustic Guardrail



Steel Backed Timber Guardrail




Wire Rope Safety Fence




Attenuator




Median Crossover Landscape Issues

- Standard Steel Beam
 - Some Restricted Opportunity for Landscaping
- Rustic Steel Beam
 - Some Restricted Opportunity for Landscaping
- Steel Backed Timber
 - No Realistic Opportunity for Landscaping
- Wire Rope Safety Fence 
 - Reasonably Good Opportunity for Restrained Landscaping

Median Crossover Protection Unit Cost

- Standard Steel Guardrail - \$32/LF
- Rustic Steel Guardrail - \$40/LF
- Steel Backed Timber Guardrail - \$90/LF
- Wire Rope Safety Fence - \$20/LF 

Median Crossover Protection Total Cost

- Standard Steel Guardrail - \$550,000.
- Rustic Steel Guardrail - \$690,000.
- Steel Backed Timber Guardrail - \$1,550,000.
- Wire Rope Safety Fence - \$330,000. 

Project Cost / Schedule

- Total Project Cost - \$5,000,000.
- Total Landscape Cost - \$200,000.
- Advertisement - Winter 2004
- Construction Start - Summer 2004
- Phase 1 - Median Crossover Protection South of Saugatucket Road Completion - Fall 2004
- Phase 2 –Jughandles Completion - Winter 2004
- Phase 3- Median Crossover Protection North of Saugatucket Road Completion – Summer 2005
- Phase 4- Intersection Improvements at Mooresfield and Bridgetown Roads Completion – Fall 2005
- Landscape Completion - Spring 2006